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Title: Candidate Molecular Pathways of White Matter Vulnerability in the Brain of Normal Aging Rhesus Monkeys

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Table S1: Genes Included on PCR Array

Symbol	Gene Name	Accession Number
<i>Neurotrophins, Growth Factor and Receptors</i>		
BDNF	brain-derived neurotrophic factor	XM_001089568
CNTF	ciliary neurotrophic factor	XM_001093229
EGF	epidermal growth factor	XM_001088957
EGFR	epidermal growth factor receptor	XM_001107305
ERBB2IP	erbb2 interacting protein	XM_001088781
ERBB4	v-erb-a erythroblastic leukemia viral oncogene homolog 4	XM_001082055
FGF12	fibroblast growth factor 12	XM_001094765
FGF17	fibroblast growth factor 17	XM_001101434
FGF19	fibroblast growth factor 19	XM_001100825
FGF21	fibroblast growth factor 21	XM_001114178
FGF23	fibroblast growth factor 23	XM_001099705
FGFR1	fibroblast growth factor receptor 1	XM_001090823
GDNF	glial cell derived neurotrophic factor	XM_001094714
GFRA1	GDNF family receptor alpha 1	XM_001094722
GRB7	growth factor receptor-bound protein 7	XM_001091728
IGF1R	insulin-like growth factor 1 receptor	XM_001100407
IGFBP1	insulin-like growth factor binding protein 1	XM_001085935
IGFBP7	insulin-like growth factor binding protein 7	XM_001083041
LOC694995	pro-neuregulin-2, membrane-bound isoform-like	XR_010206
NRG1	neuregulin 1	XM_001086184
LOC697397	glia maturation factor gamma-like	XM_001085983
LOC702041	growth factor receptor-bound protein 2-like	XM_001095326
LOC704691	protein BEX5-like	XR_011784
LOC711681	beta-nerve growth factor-like	XM_001100522
NGFR	nerve growth factor receptor	XM_001090039
NRG4	neuregulin 4	XM_001104381
NTF3	neurotrophin 3	XM_001118191
NTF4	neurotrophin 4	XM_001114610
NTRK1	neurotrophic tyrosine kinase, receptor, type 1	XM_001114243
PDGFB	platelet-derived growth factor beta polypeptide	XM_001097395
TGFB1	transforming growth factor, beta 1	XM_001100842
VEGFA	vascular endothelial growth factor A	XM_001089925
<i>Transcription Factors</i>		
CREB1	cAMP responsive element binding protein 1	XM_001107192
FOXO1	forkhead box O1	XM_001088437

JUN	jun proto-oncogene	NM_001265850
NFKB1B	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	NM_001258157
LOC715656	forkhead box protein E1-like	XM_001114004
MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	NM_001142873
STAT1	signal transducer and activator of transcription 1, 91kDa	NM_001261614
STAT2	signal transducer and activator of transcription 2, 113kDa	XM_001115072
STAT3	signal transducer and activator of transcription 3	XM_001109505
STAT4	signal transducer and activator of transcription 4	XM_001082561
STAT5A	signal transducer and activator of transcription 5A	XM_001109557

GABAergic Neurotransmission

GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1	XM_001097474
GABBR2	gamma-aminobutyric acid (GABA) B receptor, 2	XM_001110194
GABRA1	gamma-aminobutyric acid (GABA) A receptor, alpha 1	XM_001086287
GABRB2	gamma-aminobutyric acid (GABA) A receptor, beta 2	NM_001168328
GABRG2	gamma-aminobutyric acid (GABA) A receptor, gamma 2	XM_001087721
GAD2	glutamate decarboxylase 2	XM_001101800
LOC701108	similar to Gamma-aminobutyric-acid receptor beta-1 subunit precursor (GABA(A) receptor)	XM_001091167
LOC719723	gamma-aminobutyric acid receptor subunit gamma-1-like	XM_001114347
SLC32A1	solute carrier family 32 (GABA vesicular transporter), member 1	XM_001089139

Cytokines and Receptors

BMP2	bone morphogenetic protein 2	XM_001115987
BMP6	bone morphogenetic protein 6	XM_001085364
IL1B	interleukin 1, beta	NM_001042756
IL2	interleukin 2	NM_001047130
IL8RB	chemokine (C-X-C motif) receptor 2	XM_001088762
LOC715456	leukemia inhibitory factor-like	XM_001108593
TNF	tumor necrosis factor	NM_001047149

Signal Transduction

ADAM15	ADAM metallopeptidase domain 15	XM_001112574
ADAM17	ADAM metallopeptidase domain 17	XM_002799139
ADAM19	ADAM metallopeptidase domain 19	XM_001105246
AKT3	v-akt murine thymoma viral oncogene homolog 3	XM_001104624
MAPK1	mitogen-activated protein kinase 1	XM_001089600
MAPK8	mitogen-activated protein kinase 8	XM_001108815

Oxidative Stress and DNA Damage

GADD45G	growth arrest and DNA-damage-inducible, gamma	NM_001193910
FDXR	ferredoxin reductase	XM_001091261
MBD4	methyl-CpG binding domain protein 4	XM_001116090

OGG1	8-oxoguanine DNA glycosylase	XM_001096322
SOD1	superoxide dismutase 1, soluble	NM_001032804

Cellular Organization and Migration

CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa	XM_001113555
CTNNA2	catenin (cadherin-associated protein), alpha 2	XM_001113096
NTN1	netrin 1	XM_001113322
RELN	reelin	XM_001087819

Glial Cells

CNP	2',3'-cyclic nucleotide 3' phosphodiesterase	NM_001035528
GFAP	glial fibrillary acidic protein	XM_001102095
LOC720908	myelin basic protein-like	XM_001116855
MAG	myelin associated glycoprotein	XM_001111459

Other Genes

CBL	Cbl proto-oncogene, E3 ubiquitin protein ligase	XM_001104812
KLB	klotho beta	XM_001091413
LDLR	low density lipoprotein receptor	NM_001032906
LOC714042	klotho-like	XM_001101127
NRAS	neuroblastoma RAS viral (v-ras) oncogene homolog	XM_001111729
PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent)	XM_001107479
PON1	paraoxonase 1	XM_001095992
SIRT1	sirtuin 1	XM_001087854
TP53	tumor protein p53	NM_001047151

Housekeeping Genes

ACTB	actin, beta	NM_001033084
LOC703268	glyceraldehyde-3-phosphate dehydrogenase-like	XM_001091567
PPIA	peptidylprolyl isomerase A (cyclophilin A)	NM_001032809
